

3. Deposit subsequent layer with increased lattice mismatch at low T

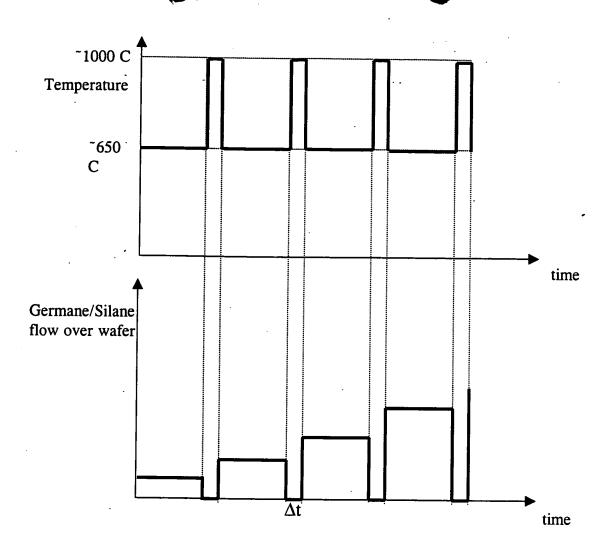


Figure 2

Glide Kinetics Series (30% Ge): Field TDD vs. Growth T

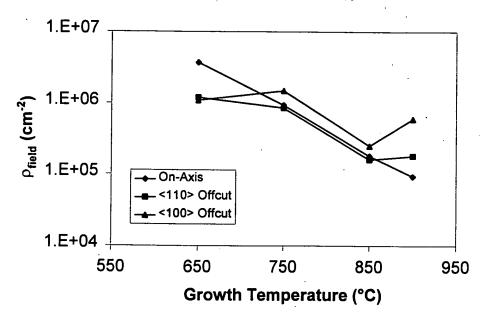


Figure 3

Change in Effective Strain to Fit Data

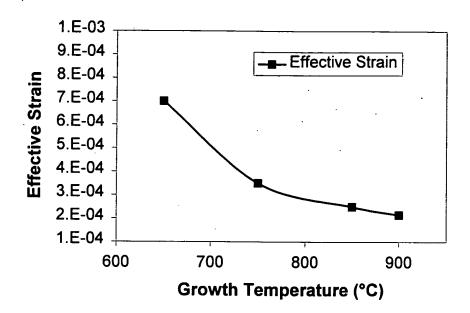


Figure 4

| Sample | Total Threading Dislocation Density (#/cm²) | Field Threading Dislocation Density (#/cm²) |
|--|---|---|
| 20% SiGe on Si with graded buffer as grown | 1.36 x 10 ⁶ | 1.31 x 10 ⁶ |
| 20% SiGe on Si with graded buffer after a 5 min anneal at 1050°C | 7.25 x 10 ⁵ | 5.48 x 10 ⁵ |

Figure 5